

森林与土壤生态国家重点实验室

State Key Laboratory of Forest and Soil Ecology

您现在的位置：森林与土壤生态国家重点实验室 >> 人才培养 >> 导师介绍 >> 正文

韩兴国—生态系统生态学

韩兴国（实验室主任）



姓 名：韩兴国

通信地址：中国科学院沈阳应用生态研究所
沈阳市沈河区文化路72号

邮 编：110016

E-mail: hanxg@iae.ac.cn
xghan@ibcas.ac.cn

教育背景

1985. 10-1989. 9 美国乔治亚大学生态研究所 博士
1978. 10-1982. 7 山东农业大学农学系 学士

工作经历

2007. 9-至今 植被与环境变化国家重点实验室(筹)主任
1998. 4-至今 中国科学院植物研究所研究员、内蒙古草原生态系统定位研究站站长
1998. 4-2006. 4 中国科学院植物所所长兼植物园主任
1997. 2-1998. 4 中国科学院西双版纳热带植物园副主任 研究员
1995. 10-1997. 2 中国科学院植物研究所 所长助理, 植物生态研究中心主任 研究员
1992. 9-1995. 10 中国科学院植物研究所植物生态研究中心副研究员
1990. 9-1992. 9 美国罗格斯大学海岸与海洋研究中心, 与JoaiI Ehrelifeld博士合作从事博士后研究
1989. 9-1990. 9 美国阿肯色大学农学系 助教
1985. 10-1989. 9 美国乔治亚大学生态研究所 研究助理
1982. 7-1985. 10 山东农业大学农学系 助教、讲师

国内外学术机构任职

武汉大学, 山东大学和西双版纳热带植物园客座教授

研究兴趣

生态系统生态学 保护生态学 生物地球化学 全球变化生物学 生态学历史

承担项目

1. 国家自然科学基金项目“克氏针茅草原碳素释放与氮素添加的耦合机制研究” 主持人
2. 国家自然科学基金重点项目“草原生态系统中生源要素的计量化学关系及其耦合机理” 主持人
3. 中国科学院知识创新工程重大项目“浑善达克沙地与京北农牧交错区生态环境综合治理实验示范研究” 首席

4. 国家重点基础研究发展规划项目2级课题“农牧交错带生态系统生产力形成机制” 主持人
5. 科技部首都圈防沙治沙应急技术与示范项目“锡林郭勒草原（锡林浩特）地区防沙治沙技术示范” 项目负责人
6. 国家自然科学基金委杰出青年基金B类项目“锡林郭勒草原景观格局与生态系统功能的综合研究” 国内合作者
7. 国家基金面上项目“热带中国碳素储量及其历史变化格局” 主持人
8. 高度氧化土壤中的土壤有机质分解对铝铁固定的磷素的活化（博士论文）
9. 家禽粪便对地下水质量的影响(在美国阿肯色大学从事博士后期间参加)
10. 新泽西北美湿地松林的土地管理对地下食物链的影响(在美国罗格斯大学参加)
11. 人类活动对暖温带落叶阔叶林生态系统结构和功能的影响
12. 中国典型退化暖温带落叶阔叶林生态系统恢复生态学的研究
13. 稳定性同位素技术在暖温带落叶阔叶林植物水分利用效率的研究中的应用
14. 人类干扰和土著知识对澜沧江流域生物多样性的影响 项目秘书，二级课题主持人
15. 国家环保总局“中国自然保护区生态旅游战略及其对策的研究” 主持人
16. 国家基金面上项目“片断化热带雨林植物水分利用效率的边缘效应” 主持人
17. 国家基础研究发展规划项目“北方草地与农牧交错带生态系统维持与适应性管理的科学基础”

参加社会团体及职务

1. 国家林业局西部地区生态环境建设专家咨询委员会委员(2000年6月)
2. 中国科学院生物多样性委员会委员(1997至今)
3. 《中国科学院研究生教学丛书》生物学科编委委员会成员(1999年至今)
4. 《植物学研究进展》系列丛书编委
5. 国家自然科学基金委项目评审组成员
6. 中国植物学会理事长(1998至今)
7. 中国生态学会常务理事兼副秘书长(1995至2000年)
8. 《生物多样性》杂志主编(1998至今)
9. Journal of Integrative plant biology杂志主编
10. 日本SCI刊物《Ecological Research》的咨询编委
11. 《植物生态学报》，《生态学报》，《应用生态学报》，《生态学杂志》，《武汉植物研究》，《长江流域资源与环境》等国内术刊物的编委或常务编委

国际交流与合作

1. 植被区系成分不同的森林生态系统中氮素矿化和硝化作用的比较研究(同美国纽约海克自然保护区合作研究)
2. 世界保护联盟(IUCN)地区理事(Regional Councillor) (2000年10月至今)
3. 多次参加国际有关生物多样性方面的谈判

发表论文

2010

1. Yu, Q., Q. Chen, J. J. Elser, N. He, H. Wu, G. Zhang, J. Wu, Y. Bai, and X. Han*. 2010. Linking stoichiometric homeostasis with ecosystem structure, functioning and stability. *Ecology Letters* 13:1390-1399.
2. Zhang, X., W. Liu, Y. Bai, G. Zhang, and X. Han*. 2010. The importance of selection and chance in community assembly and molecular evolution. *Molecular Ecology*: accepted.
3. Cui, Q., X.-T. Lü, Q.B. Wang, X.G. Han*. 2010. Nitrogen fertilization and fire act independently on foliar stoichiometry in a temperate steppe. *Plant and Soil* 334:209-219.
4. Kong, D., H. Wu, M. Wang, M. Simmons, X. Lü, Q. Yu, and X. Han*. 2010. Structural and chemical differences between shoot- and root-derived roots of three perennial grasses in a typical steppe in Inner Mongolia China. *Plant and Soil*: 1-9.
5. Lü, X.-T. and X.-G. Han. 2010. Nutrient resorption responses to water and nitrogen amendment in semi-arid grassland of Inner Mongolia, China. *Plant and Soil* 327:481-491.
6. Lü, X.-T., C.-Z. Wei, Q. Cui, Y.-H. Zhang, and X.-G. Han. 2010. Interactive effects of soil nitrogen and water availability on leaf mass loss in a temperate steppe. *Plant and Soil* 331:497-504.
7. Wang, C., X. Han, and X. Xing. 2010b. Effects of grazing exclusion on soil net nitrogen mineralization and nitrogen availability in a temperate steppe in northern China. *Journal of Arid Environments* 74: 1287-1293.
8. Zhang, G. M. and X. G. Han*. 2010. N:P stoichiometry in *Ficus racemosa* and its mutualistic pollinator. *Journal of Plant Ecology-Uk* 3: 123-130.
9. Chen, Q., Q. Wang, X. Han, S. Wan, and L. Li. 2010. Temporal and spatial variability and controls of soil respiration in a temperate steppe in northern China. *Global Biogeochemical Cycles*: doi:10.1029/2009GB003538.
10. Jiang, L., X. Han*, G. Zhang, and P. Kardol. 2010. The role of plant–soil feedbacks and land-use legacies in restoration of a temperate steppe in northern China. *Ecological Research*: 1-11.
11. Liu, P., J. Huang*, O. Sun, and X. Han. 2010a. Litter decomposition and nutrient release as affected by soil nitrogen availability and litter quality in a semiarid grassland ecosystem. *Oecologia* 162:771-780.
12. Ren, H., Z. Xu, J. Huang*, C. Clark, S. Chen, and X. Han. 2010. Nitrogen and water addition reduce leaf longevity of steppe species. *Annals of Botany*: Accepted.
13. Wang, C., K. Butterbach-Bahl, Y. Han, Q. Wang, L. Zhang, X. Han, and X. Xing. 2010a. The effects of biomass removal and N additions on microbial N transformations and biomass at different vegetation types in an old-field ecosystem in northern China. *Plant and Soil*: 1-15.
14. Xu, Z. W., S. Q. Wan, G. L. Zhu, H. Y. Ren, and X. G. Han*. 2010. The Influence of Historical Land Use and Water Availability on Grassland Restoration. *Restoration Ecology* 18: 217-225.
15. Zhang, H. X., L. J. Irving, C. McGill, C. Matthew, D. W. Zhou, and P. Kemp. 2010a. The effects of salinity and osmotic stress on barley germination rate: sodium as an osmotic regulator. *Annals of Botany* Online first.
16. Miao, B. H., X. G. Han, and W. H. Zhang. 2010. The ameliorative effect of silicon on soybean seedlings grown in potassium-deficient medium. *Annals of Botany* 105:967-973.
17. Wang, J., J. Huang*, J. Wu, X. Han, and G. Lin. 2010c. Ecological consequences of the Three Gorges Dam: insularization affects foraging behavior and dynamics of rodent populations. *Frontiers in Ecology and the Environment* 8:13-19.
18. Wolf, B., X. Zheng, N. Bruggemann, W. Chen, M. Dannenmann, X. Han, M. A. Sutton, H. Wu, Z. Yao, and K. Butterbach-Bahl. 2010. Grazing-induced reduction of natural nitrous oxide release from continental steppe. *Nature* 464:881-884.

2009

- Chen S.P, Chen J.Q, Lin G.H, Zhang W.L, Miao H.X, Wei L, Huang J.H, Han X.G.2009. Energy balance and partition in Inner Mongolia steppe ecosystems with different land use types. *Agricultural and Forest Meteorology*, 149(11):1800-1809.
- Miao H.X, Chen S.P, Chen J.Q, Zhang W.L, Zhang P, Wei L, Han X.G, Lin G.H.2009. Cultivation and grazing altered evapotranspiration and dynamics in Inner Mongolia steppes. *Agricultural and Forest Meteorology*, 149(11):1810-1819.
- Niu S.L, Yang H.J, Zhang Z, Wu M.Y, Lu Q, Li L.H, Han X.G, Wan S.Q.2009. *Ecosystem*, 12(6):915-926.
- Liu C.Y, Holst J, Yao Z.S, Bruggemann N, Butterbach-Bahl K, Han S.H, Han X.G, Zheng X.H.2009. Sheepfolds as "hotspots" of nitric oxide (NO) emission in an Inner Mongolian steppe. *Agriculture Ecosystems & Environment*, 134(1-2):136-142.
- Niu S.L, Yang H.J, Zhang Z, Wu M.Y, Lu Q, Li L.H, Han X.G, Wan S.Q.2009. The Grasslands of Inner Mongolia: A Special Feature. *Rangeland Ecology & Management*, 62(4):303-304.
- Liu P, Huang J.H, Han X.G, Sun O.J.2009. Litter Decomposition in Semiarid Grassland of Inner Mongolia, China. *Rangeland Ecology & Management*, 62(4):305-313.
- Liu H.J, Han X.G, Li L.H, Huang J.H, Liu H.S, Li X.2009. Grazing Density Effects on Cover, Species Composition, and Nitrogen Fixation of Biological Soil Crust in an Inner Mongolia Steppe. *Rangeland Ecology & Management*, 62(4):321-327.
- Li C.P, Sun O.J, Xiao C.W, Han X.G.2009. Differences in Net Primary Productivity Among Contrasting Habitats in *Artemisia ordosica* Rangeland of Northern China. *Rangeland Ecology & Management*, 62(4):345-350.
- Wilske B, Lu N, Wei L, Chen S.P, Zha T.G, Liu C.F, Xu W.T, Noormets A, Huang J.H, Wei Y.F, Chen J, Zhang Z.Q, Ni J, Sun G, Guo K, McNulty S, John R, Han X.G, Lin G.H, Chen J.Q.2009. Poplar plantation has the potential to alter the water balance in semiarid Inner Mongolia. *Journal of Environmental Management*, 90(8):2762-2770.
- Liu C.Y, Hoist J, Yao Z.S, Bruggemann N, Butterbach-Bahl K, Han S.H, Han X.G, Tas B, Susenbeth A, Zheng X.H..2009. Growing season methane budget of an Inner Mongolian steppe. *Atmospheric Environment*, 43(19):3086-3095.
- He N.P, Wu L, Wang Y.S, Han X.G..2009. Changes in carbon and nitrogen in soil particle-size fractions along a grassland restoration chronosequence in northern China. *Geoderma*, 150(3-4):302-308.
- Gao Y.Z, Giese M, Han X.G, Wang D.L, Zhou Z.Y, Brueck H, Lin S, Taube F.2009. Land use and drought interactively affect interspecific competition and species diversity at the local scale in a semiarid steppe ecosystem. *Ecological Research*, 24(3):627-635.
- Wang Z.P, Gullledge J, Zheng J.Q, Liu W, Li L.H, Han X.G.2009. Physical injury stimulates aerobic methane emissions from terrestrial plants. *Biogeosciences*, 6(4):615-621.
- Zhou L.S, Huang J.H, Lu F.M, Han X.G.2009. Effects of prescribed burning and seasonal and interannual climate variation on nitrogen mineralization in a typical steppe in Inner Mongolia. *Soil Biology & Biochemistry*, 41(4):796-803.
- Wang Z.P, Song Y, Gullledge J, Yu Q, Liu H.S, Han X.G.2009. China's grazed temperate grasslands are a net source of atmospheric methane. *Atmospheric Environment*, 43(13):2148-2153.
- Cheng W.X, Chen Q.S, Xu Y.Q, Han X.G, Li L.H.2009. Climate and ecosystem N-15 natural abundance along a transect of Inner Mongolian grasslands: Contrasting regional patterns and global patterns. *Global Biogeochemical Cycles*, 23.GB2005.
- Zhao W, Chen S.P, Han X.G, Lin G.H. 2009. Effects of long-term grazing on the morphological and functional traits of *Leymus chinensis* in the semiarid grassland of Inner Mongolia, China. *Ecological Research*, 24(1):99-108.

2008

- He N.P, Yu Q, Wu L, Wang Y.S, Han X.G. 2008. Carbon and nitrogen store and storage potential as affected by land-use in a *Leymus chinensis* grassland of northern China. *Soil Biology & Biochemistry*, 40(12):2952-2959.
- Zhang X.L, Wang Q.B, Li L.H, Han X.G.2008. Seasonal variations in nitrogen mineralization under three land use types in a grassland landscape. *Acta Oecologica-International Journal of Ecology*, 34(3):322-330.
- Liu C.Y, Holst J, Bruggemann N, Butterbach-Bahl K, Yao Z.S, Han S.H, Han X.G, Zheng X.H.2008. Effects of Irrigation on Nitrous Oxide, Methane and Carbon Dioxide Fluxes in an Inner Mongolian Steppe. *Advances In Atmospheric Sciences*, 25(5):748-756.
- Sun S.F, Huang J.H, Han X.G, Lin G.H.2008. Comparisons in water relations of plants between newly formed riparian and non-riparian habitats along the bank of Three Gorges Reservoir, China. *Trees-Structure and Function*, 22(5):717-728.
- Zhou Z.Y, Sun O.J, Luo Z.K, Jin H.M, Chen Q.S, Han X.G.2008. Variation in small-scale spatial heterogeneity of soil properties and vegetation with different land use in semiarid grassland ecosystem. *Plant and Soil*, 310(1-2):103-112.
- Bai Y.F, Wu J.G, Xing Q, Pan Q.M, Huang J.H, Yang D.L, Han X.G.2008. Primary production and rain use efficiency across a precipitation gradient on the Mongolia. *Ecology*, 89(8):2140-2153.
- John R, Chen J.Q, Lu N, Guo K, Liang C.Z, Wei Y.F, Noormets A, Ma K.P, Han X.G.2008. Predicting plant diversity based on remote sensing products in the semi-arid region of Inner Mongolia. *Remote Sensing of Environment*, 112(5):2018-2032.
- Zhang J.F, Han X.G.2008. N₂O emission from the semi-arid ecosystem under mineral fertilizer (urea and superphosphate) and increased precipitation in northern China. *Atmospheric Environment*, 42(2):291-302.
- Wang Z.P, Han X.G, Li L.H.2008. Effects of grassland conversion to croplands on soil organic carbon in the temperate Inner Mongolia. *Journal of Environmental Management*, 86(3):529-534.
- Han X.G, Ma H, Liu C.M.2008. A change of course: JIPB to focus on fundamental questions in plant sciences. *Journal of Integrative Plant Biology*, 50(1):1-1.
- Wang Z.P, Han X.G, Wang G.G, Song Y, Gullledge J.2008. Aerobic methane emission from plants in the Inner Mongolia steppe. *Environmental Science & Technology*, 42(1):62-68.
- Biswas D.K, Xu H, Li Y.G, Sun J.Z, Wang X.Z, Han X.G, Jiang G.M..2008. Genotypic differences in leaf biochemical, physiological and growth responses to ozone in 20 winter wheat cultivars released over the past 60 years. *Global Change Biology*, 14(1):46-59.

2007

- Bai Y., Wu J., Pan Q., Huang J., Wang Q., Li F., Buyantuyev A., Han X.. 2007. Positive linear relationship between productivity and diversity: evidence from the Eurasian Steppe. *Journal of Applied Ecology*, 44(5): 1023-1034.
- Biswas D.K., Xu H., Li Y.G., Sun J.Z., Wang X.Z., Han X.G., Jiang G.M..2007. Genotypic differences in leaf biochemical, physiological and growth responses to ozone in 20 winter wheat cultivars released over the past 60 years. *Global Change Biology*, 14(1): 1-14.
- Chen S., Y. Bai, G. Lin, J. Huang, X. Han. 2007. Variations in 13C values among major plant community types in the Xilin River Basin, Inner Mongolia, China. *Australian Journal of Botany*, 55(1): 48-54.
- Chen S., Y. Bai, G. Lin, J. Huang, X. Han. 2007. Isotopic carbon composition and related characters of dominant species along an environmental gradient in Inner Mongolia, China. *Journal of Arid Environments*, 71(1): 12-28.
- Gao Y., S. Wang, X. Han, Q. Chen, Z. Zhou, B. D. Patton. 2007. Defoliation, nitrogen, and competition: effects on plant growth and resource allocation

Cleistogenes squarrosa and Artemisia frigida. Journal of Plant Nutrition and Soil Science, 170(1): 115-122.

Holst J., C. Liu, N. Bruggemann, K. Butterbach-Bahl, X. Zheng, Y. Wang, S. Han, Z. Yao, J. Yue, X. Han. 2007. Microbial N Turnover and N-Oxide (N₂O/NO/NO₂) Fluxes in Semi-arid Grassland of Inner Mongolia. Ecosystems,10(4): 623-634 .

Kang L., X. Han, Z. Zhang, J. Sun. 2007. Grassland ecosystems in China: review of current knowledge and research advancement. Philosophical Transactions Of The Royal Society of London Series B-Biological Sciences, 362(1482): 997-1008.

Li G., G. Jiang, Y. Li, M. Liu, Y. Peng, L. Li, X. Han. 2007. A new approach to the fight against desertification in Inner Mongolia. Environmental Conservation, 34(2): 95-97.

Liu C., J. Holst, N. Bruggemann, K. Butterbach-Bahl, Z. Yao, J. Yue, S. Han, X. Han, J. Krummelbein, R. Horn, X. Zheng. 2007. Winter-grazing reduces methane uptake by soils of a typical semi-arid steppe in Inner Mongolia, China. Atmospheric Environment,41: 5948-5958.

Liu P., O. J. Sun, J. Huang, L. Li, X. Han. 2007. Nonadditive effects of litter mixtures on decomposition and correlation with initial litter N and P concentrations in grassland plant species of northern China. Biology and Fertility of Soils, 44(1): 211-216.

Wang Z.P., Li L.H., Han X.G., Li Z.Q., Chen Q.S. 2007. Dynamics and allocation of recently photo-assimilated carbon in an Inner Mongolia temperate steppe. Environmental and Experimental Botany 59, 1-10.

Zhang W.L., S.P.Chen, J.Chen, L.We, X.G.Han, G.H.Lin. 2007. Biophysical regulations of carbon fluxes of a steppe and a cultivated cropland in semiarid Inner Mongolia. Agricultural and Forest Meteorology, 146(3-4): 216-229.

孙双峰, 黄建辉, 林光辉, 韩兴国. 2006. 三峡库区岸边共存松栎树种水分利用策略比较. 植物生态学报, 30(1): 57-63.

2006

Jiang, G., X. Han and J. Wu. 2006. Restoration and management of the Inner Mongolia Grassland requires a sustainable strategy, AMBIO. 35(5): 269-270.

Li, H., X. Han and J. Wu. 2006. Variant scaling relationship for mass-density across tree-dominated communities. Journal of Integrative Plant Biology, 48:268-277.

Liu, P., J. Huang, X. Han, O. J. Sun and Z. Zhou. 2006. Differential responses of litter decomposition to increased soil nutrients and water between two contrasting grassland plant species of Inner Mongolia, China. Applied Soil Ecology, 34:266-275.

Wang, Z. P., X.G. Han and L. H. Li. 2006. Methane emission patches in riparian marshes of the Inner Mongolia. Atmospheric Environment, 40: 5528-5532.

Wang, Changhui, Shiqiang Wan, Xuerong Xing, Lei Zhang and Xingguo Han. 2006. Temperature and soil moisture interactively affected soil net N mineralization in temperate grassland in Northern China. Soil biology & biochemistry, 38: 1101-1110.

Yuan, Z., L. Li, X. Han, S. Wan and J. Huang. 2006. Nitrogen response efficiency increased monotonically with decreasing soil resource availability: a case study from a semiarid grassland in northern China. Oecologia, 148: 564-572.

Zhou Z., O. J. Sun, J. Huang, Y. Gao and X. Han. 2006. Land-use affects the relationship between species diversity and productivity at the local scale in a semi-arid steppe ecosystem. Functional Ecology, 20: 753-762.

熊小刚, 韩兴国. 2006. 内蒙古退化草原中与小叶锦鸡儿相关的小尺度土壤碳、氮资源异质性动态. 生态学报,26(2): 483-488.

熊小刚, 韩兴国. 2006. 资源岛在草原灌丛化和灌丛化草原中的作用. 草业学报, 15(1): 9-14.

熊小刚, 韩兴国. 2006. 运用状态与过渡模式讨论锡林河流域典型草原的灌丛化. 草业学报,15(2):9-13.

2005

Chen, S.P., Y.F. Bai, G.H. Lin, Y. Liang, and X.G. Han. 2005. Effects of grazing on photosynthetic characteristics of major steppe species in the Xilin River Basin, Inner Mongolia, China. Photosynthetica, 43: 559-565.

Chen, Shiping, Yongfei Bai, Guanghui Lin, Xingguo Han. 2005. Variations in life-form composition and foliar carbon isotope discrimination among eight plant communities under different soil moisture conditions in the Xilin River Basin, Inner Mongolia, China. Ecological Research,20:167-176.

Chen, Shiping, Yongfei Bai, Lixia Zhang, Xingguo Han. 2005. Comparing physiological responses of two dominant grass species to N addition in Xilin River Basin of China. Experimental and Environmental Botany, 53: 65-75.

Gao, Y. Z., S. P. Wang, X. G. Han, B. D. Patton and P. E. Nyren. 2005. Competition between Artemisia frigida and Cleistogenes squarrosa under different clipping intensities in replacement series mixtures at different nitrogen levels. Grass and Forage Science, 60: 119-127.

He, nianpeng, Xingguo Han and Qingmin Pan. 2005. Variations in the volatile organic compound emission potential of plant functional groups in the temperate grassland vegetation of Inner Mongolia, China. Journal of integrative plant biology, 47(1): 13-19.

Wang, Zhiping, Xingguo Han. 2005. Diurnal variation in methane emissions in relation to plants and environmental variables in the Inner Mongolia marshes. Atmospheric environment, 39: 6295-6305.

Wang, Zhiping, Xingguo Han, Linghao Li, Quansheng Chen, Yi Duan, Weixin Cheng. 2005. Methane emission from small wetlands and implications for semi-arid region budget. Journal of Geophysical Research, 110, D13304, doi:10.1029/2004JD005548

Wu, J. G., Y. F. Bai, X. G. Han, L. H. Li, and Z. Z. Chen. 2005. Ecosystem stability in Inner Mongolia (reply). Nature, 435:E6-E7.

Yuan, Z., L. Li, J. Huang, X. Han, S. Wan. 2005. Effect of nitrogen supply on the nitrogen use efficiency of an annual herb, Helianthus annuus L. Journal of Integrative Plant Biology, 47: 539-548.

Yuan, Z., L. Li, X. Han, J. Huang, G. Jiang, S. Wan, W. Zhang, and Q. Chen. 2005. Soil characteristics and nitrogen resorption in Stipa krylovii native to northern China. Plant and Soil, 273: 257-268.

Yuan, Z., L. Li, X. Han, J. Huang, G. Jiang, S. Wan, W. Zhang, Q. Chen. 2005. Nitrogen resorption from senescing leaves in 28 plant species in a semi-arid region of northern China. Journal of Arid Environments, 63: 191-202.

Yuan, Z., L. Li, X. Han, S. Wan, W. Zhang. 2005. Variation in nitrogen economy of two Stipa species in the semiarid region of northern China. Journal of Arid Environments, 61: 13-25.

Yuan, Z.Y., L.H. Li, X.G. Han, J.H. Huang, and S.Q. Wan. 2005. Foliar nitrogen dynamics and nitrogen resorption of a sandy shrub Salix gordejvii in northern China. Plant and soil, 278: 183-193.

何念鹏, 韩兴国, 潘庆民. 2005. 植物源VOCs及其对陆地生态系统碳循环的贡献. 生态学报, 25(8): 2041-2048.

黄建辉, 林光辉, 韩兴国. 2005. 不同生境间红树科植物水分利用效率的比较研究. 植物生态学报, 29(4): 530-536.

潘庆民, 白永飞, 韩兴国, 杨景成. 2005. 氮素对内蒙古典型草原羊草种群的影响. 植物生态学报, 29(2): 311-317.

孙双峰, 黄建辉, 林光辉, 赵威, 韩兴国. 2005. 稳定同位素技术在植物水分利用研究中的应用. 生态学报, 25: 2362-2371.

熊小刚, 韩兴国, 鲍雅静. 2005. 试论我国内蒙古半干旱草原灌丛沙漠化的研究. 草业学报, 14(5): 3-7.

熊小刚, 韩兴国. 2005. 内蒙古半干旱草原灌丛化过程中小叶锦鸡儿引起的土壤碳、氮资源的空间异质性分布. 生态学报, 25(7): 1678-1683.

熊小刚, 韩兴国, 周才平. 2005. 平衡与非平衡生态学下的放牧系统管理. 草业学报, 14(6): 10-15.

杨景成, 黄建辉, 唐建维, 潘庆民, 韩兴国. 2005. 西双版纳农田弃耕后橡胶园的建立对碳的固存作用. 植物生态学报, 29: 296-303.

张剑, 李贵才, 刘先华, 韩兴国. 2005. 利用草场健康指数监测典型草原的植被退化. 生态学杂志, 24(12): 1392-1396.

2004

- Bai, Yongfei, Xingguo Han, Jianguo Wu, Zuozhong Chen and Linghao Li. 2004. Ecosystem stability and compensatory effects in the Inner Mongolia grassland. *Nature*, 431(9): 181-184.
- He, Nianpeng, Xingguo Han, Wei Sun, Qingmin Pan. 2004. Biogenic VOCs emission inventory development of temperate grassland vegetation in Xilin River Basin, Inner Mongolia, China. *Journal of Environmental Sciences*, 16(6): 1024-1032.
- Li, Guicai, Xingguo Han, Jianhui Huang. 2004. N Mineralization and nitrification in a primary *Lithocarpus xylocarpus* forest and degraded vegetation in the Ailao Mountain, Yunnan Province. *Acta Botanica Sinica*, 46(2): 194-201.
- Wang, Jianzhu, Guanghui Lin, Jianhui Huang, Xingguo Han. 2004. Applications of stable isotopes to study plant-animal relationships in terrestrial ecosystems. *Chinese Science Bulletin*, 49(22): 2339-2347.
- Wang, Zhengwen, Linghao Li, Xingguo Han. 2004. Do rhizome severing and shoot defoliation affect clonal growth of *Leymus chinensis* at ramet population level? *Acta Oecologia*, 26: 255-260.
- Wang, Zhiping, Yi Duan, Jurong Yang, Linghao Li, Xingguo Han. 2004. Plateau marsh methane oxidation as affected by inorganic N. *Pedosphere*, 14(2): 195-204.
- Wu, Jianguo, Jianhui Huang, Xingguo Han, Xianming Gao, Fangliang He, Mingxi Jiang, Zhigang Jiang, Richard B primack, Zehao Shen. 2004. The Three Gorges Dam: an ecological perspective. *Front Ecol Environ*, 2(5): 241-248.
- Yang, Jingcheng, Jianhui Huang, Qingmin Pan, Jianwei Tang, Xingguo Han. 2004. Long-term impacts of land-use change on dynamics of tropical soil carbon and nitrogen pools. *Journal of Environmental Science*, 16(2): 256-261.
- Yuan, Zhiyou, Linghao Li, Xingguo Han. 2004. Effect of plant size on the nitrogen use strategy in an annual herb, *Helianthus annuus* (Sunflower). *Acta Botanica Sinica*, 46(8): 889-895.
- Yuan, Zhiyou, Linghao Li, Xingguo Han. 2004. Effects of simulating grazing pattern and nitrogen supply on plant growth in a semiarid region of northern china. *Acta Botanica Sinica*, 46: 1032-1039.
- Zhang, Lixia, Yongfei Bai, Xingguo Han. 2004. Differential Responses of N:P Stoichiometry of *Leymus chinensis* and *Carex Korshinskyi* to N Additions in a Steppe Ecosystem in Nei Mongol. *Acta Botanica Sinica*, 46(3): 259-270.
- 鲍雅静, 李政海, 韩兴国, 张颖, 仲延凯. 2004. 刈割对羊草叶面积指数的影响. *草地学报*, 12(4): 313-317.
- 陈全胜, 李凌浩, 韩兴国等. 2004. 典型温带草原群落土壤呼吸温度敏感性与土壤水分的关系. *生态学报*, 24(4): 831-836.
- 陈全胜, 李凌浩, 韩兴国, 董云社, 王智平, 熊小刚, 阎志丹. 2004. 土壤呼吸对温度的响应. *生态学报*, 24(11): 2649-2655.
- 陈世莘, 白水飞, 韩兴国, 安吉林, 郭富存. 2004. 沿土壤水分梯度黄囊苔草碳同位素组成及其适应策略的变化. *植物生态学报*, 28(4): 515-522.
- 高英志, 韩兴国, 汪诗平. 2004. 放牧对草原土壤的影响. *生态学报*, 24(4): 790-797.
- 高英志, 汪诗平, 韩兴国, 陈全胜, 王艳芬, 周志勇, 张淑敏, 杨晶. 2004. 退化草地恢复过程中土壤氮素状况以及与植被地上绿色生物量形成关系的研究. *植物生态学报*, 28(3): 285-293.
- 潘庆民, 白水飞, 韩兴国, 杨景成. 2004. 内蒙古典型草原羊草群落氮素去向的示踪研究. *植物生态学报*, 28(5): 665-671.
- 潘庆民, 白水飞, 韩兴国, 张丽霞. 2004. 羊草根茎的贮藏碳水化合物及对氮素添加的响应. *植物生态学报*, 28(1): 53-58.
- 王常慧, 邢雪荣, 韩兴国. 2004. 草地生态系统中土壤氮素矿化影响因素的研究进展. *应用生态学报*, 15(11): 2184-2188.
- 王常慧, 邢雪荣, 韩兴国. 2004. 温度和湿度对我国内蒙古羊草草原土壤净碳矿化的影响. *生态学报*, 24(11): 2472-2476.
- 王建柱, 林光辉, 黄建辉, 韩兴国. 2004. 稳定同位素在陆地生态系统动-植物相互关系研究中的应用. *科学通报*, 49(21): 2141-2149.
- 熊小刚, 韩兴国, 陈全胜, 米湘成. 2004. 平衡与非平衡生态学在锡林河流域典型草原放牧系统中的应用. *生态学报*, 24(10): 2165-2170.
- 杨景成, 黄建辉, 潘庆民, 韩兴国. 2004. 西双版纳不同热带生态系统土壤有机质的光谱学特性. *植物生态学报*, 28(5): 623-629.
- 袁志友, 李凌浩, 韩兴国. 2004. 藜个体在高密度种群中的氮素利用效率. *植物生态学报*, 28(3): 294-299.

2003

- Chen, Shiping, Yongfei Bai, Xingguo Han. 2003. Variations in Composition and Water Use Efficiency of Plant Functional Groups Based on Their Water Ecological Groups in the Xilin River Basin. *Acta Botanica Sinica*, 45(10): 1251-1260.
- Wu, Jianguo, Jianhu Huang, Xingguo Han, Zongqiang Xie, Xianming Gao. 2003. Three-Gorges Dam-Experiment in Habitat Fragmentation. *Science*, 300(23): 1239-1240.
- Wu, Jianguo, Jianhui Huang, Xingguo Han. 2003. Three-Gorges Dam: risk to ancient fish. *Science*, 32(14): 1149-1150.
- Zhang, Lixia, Yongfei Bai, Xingguo Han. 2003. Application of N:P stoichiometry to ecology studies. *Acta Botanica Sinica*, 45(9): 1009-1018.
- 陈全胜, 李凌浩, 韩兴国, 熊小刚. 2003. 土壤呼吸的温度敏感度. 《植物科学进展》, 第五卷. 215-221
- 陈全胜, 李凌浩, 韩兴国, 阎志丹. 2003. 水分对土壤呼吸的影响及机理. *生态学报*, 23(5): 972-978.
- 陈全胜, 李凌浩, 韩兴国, 董云社. 2003. 土壤呼吸对全球变暖的响应. *地学前缘*, 10(4).
- 陈全胜, 李凌浩, 韩兴国, 阎志丹, 王艳芬, 袁志友. 2003. 水热条件对锡林河流域典型草原退化群落土壤呼吸的影响. *植物生态学报*, 27(2): 202-209.
- 陈全胜, 李凌浩, 韩兴国, 阎志丹, 王艳芬, 张焱, 袁志友, 唐芳. 2003. 温带草原11个植物群落夏秋土壤呼吸对气温变化的响应. *植物生态学报*, 27(4): 441-447.
- 韩兴国, 王智平. 2003. 土壤生物多样性与微量气体(CO₂, CH₄, N₂O)代谢. *生物多样性*, 11(4): 322-332.
- 黄建辉, 韩兴国, 杨荣二, 白水飞. 2003. 外来种入侵的生物学与生态学基础的若干问题. *生物多样性*, 11(3): 240-247.
- 王智平, 段毅, 杨居荣, 陈全胜, 韩兴国. 2003. 青藏高原若尔盖沼泽潜在CH₄氧化与生成的分布特征. *植物生态学报*, 27(6): 786-791
- 熊小刚, 韩兴国, 白水飞, 潘庆民. 2003. 锡林河流域草原小叶锦鸡儿分布增加的趋势, 原因和结局. *草业学报*, 12(3): 57-62.
- 熊小刚, 韩兴国, 陈全胜, 潘庆民. 2003. 木本植物多度在草原和稀树干草原中增加的研究进展. *生态学报*, 23(11): 2436-2443.
- 熊小刚, 韩兴国, 陈全胜. 2003. 干旱和半干旱生态系统中的沃岛效应. 《植物科学进展》, 第五卷. 179-183
- 熊小刚, 韩兴国. 2003. 生态学中的新领域—沃岛效应与草原的灌丛化. *植物杂志*, (2): 45-46.
- 杨景成, 韩兴国, 黄建辉, 潘庆民. 2003. 土地利用变化对陆地生态系统碳贮量的影响. *应用生态学报*, 14(8): 1385-1390
- 杨景成, 韩兴国, 黄建辉, 潘庆民. 2003. 土壤有机质对农田管理措施的动态响应. *生态学报*, 23(4): 787-796.

2002年以前

- Chen, Shiping, Yongfei Bai, Xingguo Han. 2002. Variation of Water-Use Efficiency of *Leymus chinensis* and *Cleistogenes squarrosa* in Different Plant Communities in Xilin River Basin, Nei Mongol. *Acta Botanica Sinica*, 44(12): 1484-1490.
- Huang, H., X. Han, L. Kang, P. Raven, P. W. Jackson and Y. Chen. 2002. Conserving native plants in china. *Science*, 297:935-936
- Li, Linghao, Xingguo Han, Qibing Wang, Quansheng Chen, Yan Zhang, Jing Yang, Zhidan Yan, Xin Li, Wenming Bai, Shihuan Song. 2002. Soil carbon balance in a native temperate grassland in the Xilin River Basin of Inner Mongolia. *Acta Botanica Sinica*, 44(6): 740-742.
- Li, Linghao, Xingguo Han, Qibing Wang, Wenming Bai, Yongfei Bai, Zhidan Yan, Quansheng Chen, Yan Zhang, Jing Yang, Xin Li, Shihuan

- Su, Bo, Xingguo Han, Chunmei Qu, Jianhui Huang. 2002. Effects of species composition and species diversity on soil properties in warm temperate forest ecosystems of Dongling mountainous region, Beijing. *Ekológia*, 21(2):119-128
- 陈世苹, 白永飞, 韩兴国. 2002. 稳定性碳同位素技术在生态学中的应用. *植物生态学报*, 26(5): 549-560.
- 李凌浩, 韩兴国, 王其兵, 等. 2002. 锡林河流域一个放牧草原群落中根系呼吸占土壤总呼吸比例的初步估计. *植物生态学报*, 26(1): 29-32.
- 李宪利, 袁志友, 李凌浩, 韩兴国. 2002. 葡萄的成花过程及其影响因素. *果树学报*, 19(5): 330-335.
- 潘庆民, 韩兴国, 白永飞. 2002. 植物非结构性贮藏碳水化合物的生理生态学研究进展. *植物学通报*, 19(1): 30-38.
- 苏波, 韩兴国, 渠春梅, 李贵才. 2002. 森林土壤氮素可利用性的影响因素研究综述. *生态学杂志*, 21(2): 40-46.
- 严昌荣, 韩兴国, 陈灵芝, 沈做奎. 2002. 中国暖温带落叶阔叶林中某些树种的 $\delta^{13}\text{C}$ 自然丰度: $\delta^{13}\text{C}$ 值及其生态学意义. *生态学报*, 22(12): 2163-2166.
- 张化永, 郭建国, 韩兴国. 2002. 植被的组织有序度及其全球格局. *植物生态学报*, 26(2): 129-139.
- 韩兴国, 崔金钟. 2001. 植物科学的回顾与展望. *中国科学院院刊*, (5): 329-333.
- 黄建辉, 白永飞, 韩兴国. 2001. 物种多样性与生态系统功能: 影响机制及有关假说. *生物多样性*, 9(1): 1-7.
- 黄建辉, 韩兴国. 2001. 关键种, 关键在哪里? *植物生态学报*, 25(4): 505-509.
- 李贵才, 韩兴国, 黄建辉. 2001. 哀牢山木果柯林及其退化植被下土壤无机氮库的干季动态特征. *植物生态学报*, 25(2): 210-217.
- 李贵才, 韩兴国, 黄建辉. 2001. 森林生态系统土壤氮矿化影响因素研究进展. *生态学报*, 21(7): 1187-1195.
- 渠春梅, 韩兴国, 苏波, 黄建辉, 蒋高明. 2001. 西双版纳片断化热带雨林常绿乔木幼树水分利用效率的边缘效应研究. *植物生态学报*, 25(1): 1-5.
- 渠春梅, 韩兴国, 苏波, 黄建辉, 蒋高明. 2001. 云南西双版纳片断化热带雨林植物叶片 $\delta^{13}\text{C}$ 值的特点及其对水分利用效率的指示. *植物学报*, 43(2): 186-192.
- 苏波, 韩兴国, 渠春梅, 黄建辉. 2001. 东灵山油松纯林和油松-辽东栎针阔混交林土壤氮素矿化消化作用研究. *植物生态学报*, 25(2): 195-203.
- 严昌荣, 韩兴国, 陈灵芝. 2001. 六种木本植物水分利用效率和其小生境关系研究. *生态学报*, 21(11): 1952-1956.
- 韩兴国, 严昌荣, 陈灵芝, 梅旭荣. 2000. 暖温带地区几种木本植物碳稳定同位素的特点. *应用生态学报*, 11(4): 497-500.
- 黄建辉, 陈灵芝, 韩兴国. 2000. 几种常量微量元素在辽东栎枝条分解过程中的变化特征. *生态学报*, 20(2): 229-234.
- 黄建辉, 李海涛, 韩兴国, 陈灵芝. 2000. 暖温带两种针叶林生态系统中茎流和穿透雨的养分特征研究. *植物生态学报*, 24(2): 248-251.
- 渠春梅, 韩兴国, 苏波. 2000. 片段化森林的边缘效应与自然保护区的设计管理. *生态学报*, 20(1): 160-167.
- 苏波, 韩兴国, 黄建辉, 渠春梅. 2000. 植物的养分利用效率(NUE)及植物对养分胁迫环境的适应策略. *生态学报*, 20(2): 353-343.
- 苏波, 韩兴国, 李凌浩, 黄建辉, 白永飞, 渠春梅. 2000. 中国东北样带草原区植物 $\delta^{13}\text{C}$ 值及水分利用效率对环境梯度的响应. *植物生态学报*, 24(6): 648-655.
- 苏波, 韩兴国, 渠春梅, 黄建辉. 2000. 箭叶锦鸡儿群落加速亚高山草甸-箭叶锦鸡儿-硕桦林演替系列的演替进程. *植物学报*, 42(7): 751-757.
- 邢雪荣, 韩兴国, 陈灵芝. 2000. 植物养分利用效率研究综述. *应用生态学报*, 11(5): 785-790.
- 严昌荣, 韩兴国, 陈灵芝. 2000. 北京山区落叶阔叶林优势种叶片特点及其生理生态特性. *生态学报*, 20(1): 53-60.
- 黄建辉, 韩兴国, 陈灵芝. 1999. 森林生态系统根系生物量研究进展. *生态学报*, 19(2): 270-277.
- 苏波, 韩兴国, 黄建辉. 1999. ^{15}N 自然丰度法在生态系统氮素循环研究中的应用. *生态学报*, 19(3): 408-416.
- 严昌荣, A. I. Downey, 韩兴国, 陈灵芝. 1999. 北京山区落叶阔叶林中核桃楸在生长期中的树干液流研究. *生态学报*, 19(6): 793-797.
- 严昌荣, 陈灵芝, 黄建辉, 韩兴国. 1999. 中国东部主要松林养分元素循环的比较研究. *植物生态学报*, 23(4): 351-360.
- 黄建辉, 陈灵芝, 韩兴国. 1998. 暖温带落叶阔叶林辽东栎枝条分解过程中有机物质的变化. *植物学报*, 40(4): 362-369.
- 黄建辉, 陈灵芝, 韩兴国. 1998. 辽东栎枝条分解过程中几种主要营养元素的变化. *植物生态学报*, 22(5): 398-402.
- 蒋高明, 韩兴国, 林光辉. 1997. 大气 CO_2 浓度升高对植物的直接影响--国外十余年来模拟实验研究之主要手段及基本结论. *植物生态学报*, 21(6): 489-502.
- 韩兴国, 黄建辉, 娄志平. 1995. 关键种概念在生物多样性保护中的意义与存在的问题. *植物学通报*, 12: 168-184.
- 黄建辉, 韩兴国. 1995. 森林生态系统的生物地球化学循环: 理论与方法. *植物学通报*, 12: 195-223.
- 黄建辉, 韩兴国. 1995. 生物多样性和生态系统稳定性. *生物多样性*, 3: 31-37.

论著

- 郭建国, 葛剑平, 韩兴国, 余振良, 张大勇. 2007. 《现代生态学讲座(III): 学科进展与热点论题》. 北京: 高等教育出版社.
- 郭建国, 韩兴国, 黄建辉主编. 2001. 《现代生态学讲座(二): 基础研究与环境问题》. 科学技术出版社.
- 韩兴国, 李凌浩, 黄建辉(主编). 1999. 生物地球化学概论. 高等教育出版社. 施普林格出版社. 325页.
- 蒋志刚, 马克平, 韩兴国(主编). 1997. 保护生物学. 浙江科学技术出版社. 263页.
- 韩兴国. 1995. 生态演替理论与生态系统的恢复和重建. 第1-15页. 见: 陈伟烈, 韩兴国, 贺金生(编著). 1995. 中国退化生态系统研究. 北京: 中国科学技术出版社. 246页.
- 陈灵芝, 陈伟烈, 韩兴国, 贺金生(编著). 1995. 中国退化生态系统研究. 北京: 中国科学技术出版社. 246页.
- 韩兴国. 1994. 岛屿生物地理学理论与生物多样性保护. 第83-103页. 见: 钱迎倩, 马克平(主编). 生物多样性研究的原理与方法. 北京: 中国科学技术出版社.
- 韩兴国, 程维信. 1992. 养分的生物地球化学循环. 第73-100页. 见: 刘建国等主编: 当代生态学博论. 北京: 中国科学技术出版社.